

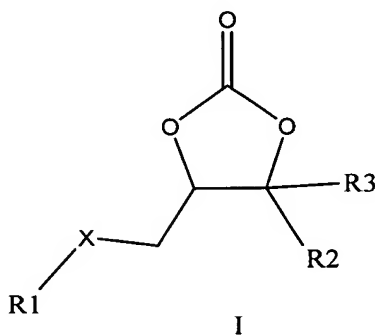
IN THE CLAIMS

Please amend the claims as follows:

Claims 1-20 (Canceled).

Claim 21 (New): A compound comprising an alkylglycidol carbonate of the formula

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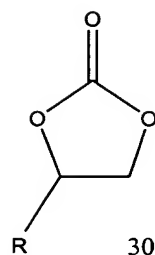
in which the symbols X, R¹, R² and R³ have the following meanings:

R¹ is a linear or branched, unsubstituted C₃-C₂₉-alkyl group or a linear or branched, unsubstituted C₃-C₂₉-alkenyl group, wherein the substituent R¹ has an average degree of branching which is defined as (number of methyl groups per molecule)-1 of from 0.2 to 1.6;

R² and R³, independently of one another, are hydrogen or a linear or branched alkyl group;

X is selected from the group consisting of O, O(CH₂CHR⁴O)_n, S, NR⁵, COO and CONH, in which R⁴ and R⁵ are hydrogen, methyl, ethyl or propyl, and n is a number from 1 to 5, where mixtures of compounds with groups X of the formula O(CH₂CHR⁴O)_n are also included by the formula I, in which n has various numerical values,

wherein alkylglycidol carbonates of formula



, wherein R is $\text{CH}_2\text{-O-CH}(\text{CH}_3)_2$ are excluded.

Claim 22 (New): The compound as claimed in claim 21, wherein in formula I the symbols X, R^1 , R^2 and R^3 have the following meanings:

R^1 is a linear or branched $\text{C}_3\text{-C}_{18}$ -alkyl group or a linear or branched $\text{C}_3\text{-C}_{18}$ -alkenyl group, wherein the substituent R^1 has an average degree of branching of from 0.2 to 1.6;

R^2 and R^3 , independently of one another are hydrogen or a linear or branched alkyl group having 1 to 5 carbon atoms; and

X is O, $\text{O}(\text{CH}_2\text{CHR}^4\text{O})_n$ or NR^5 , in which R^4 and R^5 are hydrogen, methyl, ethyl or propyl and n is a number from 1 to 5, where mixtures of compounds with groups X of the formula $\text{O}(\text{CH}_2\text{CHR}^4\text{O})_n$ are covered by the formula I, in which n can have various numerical values.

Claim 23 (New): The compound as claimed in claim 21, wherein

R^1 is a linear or branched $\text{C}_5\text{-C}_{18}$ -alkyl group or a linear or branched $\text{C}_5\text{-C}_{18}$ -alkenyl, wherein the substituent has an average degree of branching of from 0.2 to 1.6; and
at least one of the radicals R^2 or R^3 is hydrogen.

Claim 24 (New): The compound as claimed in claim 21, wherein R^2 and R^3 are hydrogen.

Claim 25 (New): The compound as claimed in claim 24, wherein R^1-X is $C_5H_{11}CH(C_3H_7)CH_2O$, or a radical based on a technical-grade C_{13} - C_{15} -oxo alcohol or a technical-grade or native C_{12} - C_{14} -alcohol or a C_{10} - or C_{13} -alcohol and having a degree of branching of about 1.5.

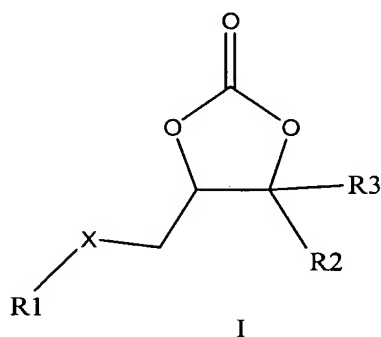
Claim 26 (New): The compound as claimed in claim 25, in which R^1-X is $C_5H_{11}CH(C_3H_7)CH_2O$, and which are present as a mixture, in which

70 to 99% by weight of compounds in which C_5H_{11} has the meaning $n-C_5H_{11}$ are present and

1 to 30% by weight of compounds in which C_5H_{11} has the meaning $C_2H_5CH(CH_3)CH_2$ and/or $CH_3CH(CH_3)CH_2CH_2$ are present.

Claim 27 (New): A compound comprising an alkylglycidol carbonate of the formula

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in which the symbols X , R^1 , R^2 and R^3 have the following meanings:

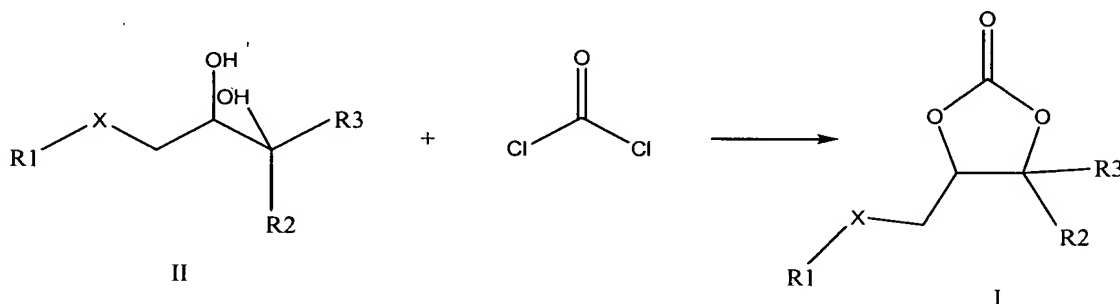
R^1 is a linear or branched, unsubstituted C_3 - C_{29} -alkyl group or a linear or branched, unsubstituted C_3 - C_{29} -alkenyl group;

R^2 and R^3 , independently of one another, are hydrogen or a linear or branched alkyl group;

X is chosen from the group consisting of $\text{O}(\text{CH}_2\text{CHR}^4\text{O})_n$, S, NR^5 and CONH, in which R^4 and R^5 are hydrogen, methyl, ethyl or propyl, and n is a number from 1 to 5, where mixtures of compounds with groups X of the formula $\text{O}(\text{CH}_2\text{CHR}^4\text{O})_n$ are also included by the formula I, in which n has various numerical values.

Claim 28 (New): The compound as claimed in claim 27, wherein the substituent R^1 has an average degree of branching which is defined as (number of methyl groups per molecule)-1 of from 0 to 2.5.

Claim 29 (New): A method for producing an alkylglycidol carbonate as claimed in claim 21, comprising reacting 1,2-diols of the formula II and functionalized with an R^1 -X- CH_2 group with phosgene in accordance with the following reaction scheme:



in which the symbols X, R^1 , R^2 and R^3 have the following meanings:

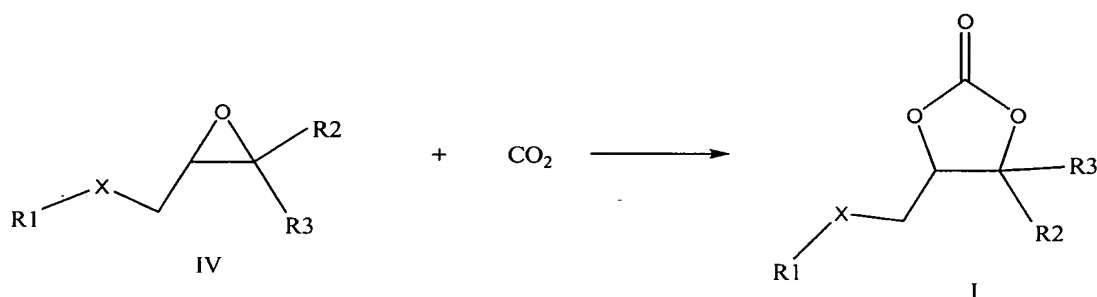
R^1 is a linear or branched, unsubstituted C_3 - C_{29} -alkyl group or a linear or branched, unsubstituted C_3 - C_{29} -alkenyl group;

R^2 and R^3 , independently of one another, are hydrogen or a linear or branched alkyl group;

X is selected from the group consisting of O, $\text{O}(\text{CH}_2\text{CHR}^4\text{O})_n$, S, NR^5 , COO and CONH, in which R^4 and R^5 are hydrogen, methyl, ethyl or propyl, and n is a number from 1

to 5, where mixtures of compounds with groups X of the formula $O(CH_2CHR^4O)_n$ are also included by the formula I, in which n has various numerical values.

Claim 30 (New): A method for producing an alkylglycidol carbonate as claimed in claim 21, comprising reacting epoxides of the formula IV according to the following reaction scheme with CO_2 using a catalyst:



in which the symbols X, R^1 , R^2 and R^3 have the following meanings:

R^1 is a linear or branched, unsubstituted C_3 - C_{29} -alkyl group or a linear or branched, unsubstituted C_3 - C_{29} -alkenyl group;

R^2 and R^3 , independently of one another, are hydrogen or a linear or branched alkyl group;

X is selected from the group consisting of O, $O(CH_2CHR^4O)_n$, S, NR^5 , COO and CONH, in which R^4 and R^5 are hydrogen, methyl, ethyl or propyl, and n is a number from 1 to 5, where mixtures of compounds with groups X of the formula $O(CH_2CHR^4O)_n$ are also included by the formula I, in which n has various numerical values.

Claim 31 (New): A method as claimed in claim 30, wherein the epoxide of the formula IV is produced by reacting epichlorohydrin with suitable alcohols, thiols, alcohols reacted with alkylene oxides, amines, carboxylic acids, their esters or their carboxamides and subsequent or simultaneous elimination of HCl.

Claim 32 (New): A method as claimed in claim 31, wherein the suitable alcohols, thiols, alcohols reacted with alkylene oxides, amines, carboxylic acids or their esters or carboxamides are chosen from linear or branched aliphatic C₃-C₂₉-alcohols with an average degree of branching which is defined as (number of methyl groups per molecule)-1 of from 0 to 2.5, where the alkyl chain can have further substituents which increase the suitability of the molecule as cosurfactant, but at least do not negatively influence it, Guerbet alcohols and their unsaturated analogs, and the substituted thiols corresponding to the suitable alcohols, alcohols reacted with alkylene oxides, amines, carboxylic acids and their carboxamides.

Claim 33 (New): A detergent, household cleaner, body-cleansing composition or bodycare composition comprising at least one alkylglycidol carbonate as claimed in claim 21.

Claim 34 (New): A detergent as claimed in claim 33 in solid, liquid, gel or paste form.

Claim 35 (New): A detergent as claimed in claim 33, comprising 0.1 to 40% by weight based on the total amount of the formulation, of at least one alkylglycidol carbonate.

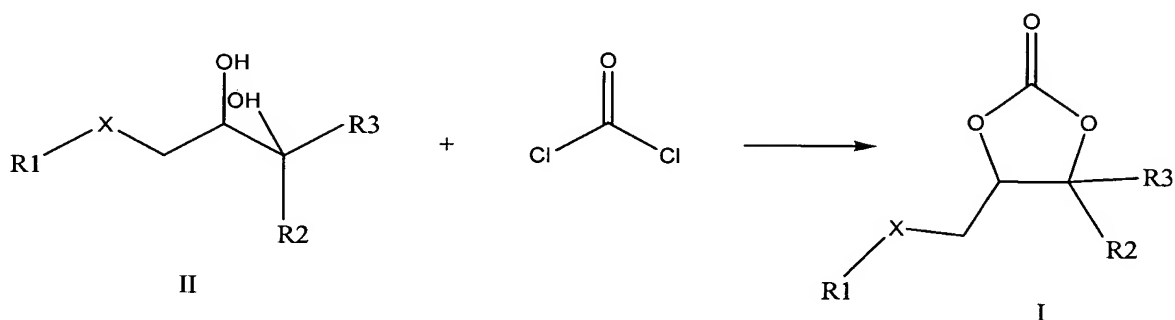
Claim 36 (New): A household cleaner as claimed in claim 33 in liquid, gel or solid form.

Claim 37 (New): A household cleaner as claimed in claim 36 in the form of a hand dishwashing detergent, machine dishwashing detergent, metal degreaser, glass cleaner, floor cleaner, all-purpose cleaner, high-pressure cleaner, alkaline cleaner, acidic cleaner, spray degreaser, dairy cleaner, upholstery cleaner, plastic cleaner and bathroom cleaner.

Claim 38 (New): A household cleaner as claimed in claim 36, comprising 0.01 to 40% by weight based on the total formulation, of at least one alkylglycidol carbonate.

Claim 39 (New): A body-cleansing composition or bodycare composition in the form of a shampoo, shower or bath gel, shower or bath lotion, a lipstick, a cosmetic formulation with care and/or conditioning properties or a styling product, a liquid soap, a care cream, a hair foam, hair gel, hair spray or after-treatment composition, a hair tonic, a lotion, treatment rinse, treatment pack, a split-end fluid, hair repair composition, hot oil treatment, hair-setting composition, hair colorant or permanent waving agent, comprising at least one alkylglycidol carbonate as claimed in claim 21.

Claim 40 (New): A method for producing an alkylglycidol carbonate as claimed in claim 27, comprising reacting 1,2-diols of the formula II and functionalized with an R^1 -X- CH_2 group with phosgene in accordance with the following reaction scheme:



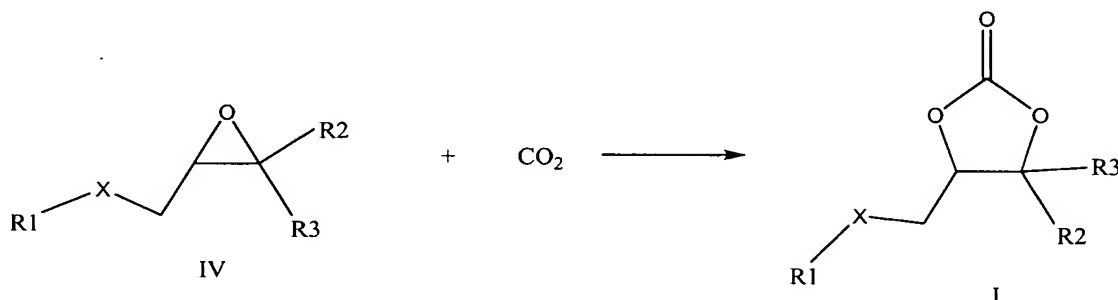
in which the symbols X, R¹, R² and R³ have the following meanings:

R¹ is a linear or branched, unsubstituted C₃-C₂₉-alkyl group or a linear or branched, unsubstituted C₃-C₂₉-alkenyl group;

R² and R³, independently of one another, are hydrogen or a linear or branched alkyl group;

X is selected from the group consisting of O, $\text{O}(\text{CH}_2\text{CHR}^4\text{O})_n$, S, NR^5 , COO and CONH, in which R^4 and R^5 are hydrogen, methyl, ethyl or propyl, and n is a number from 1 to 5, where mixtures of compounds with groups X of the formula $\text{O}(\text{CH}_2\text{CHR}^4\text{O})_n$ are also included by the formula I, in which n has various numerical values.

Claim 41 (New): A method for producing an alkylglycidol carbonate as claimed in claim 27, comprising reacting epoxides of the formula IV according to the following reaction scheme with CO_2 using a catalyst:



in which the symbols X, R^1 , R^2 and R^3 have the following meanings:

R^1 is a linear or branched, unsubstituted C_3 - C_{29} -alkyl group or a linear or branched, unsubstituted C_3 - C_{29} -alkenyl group;

R^2 and R^3 , independently of one another, are hydrogen or a linear or branched alkyl group;

X is selected from the group consisting of O, $\text{O}(\text{CH}_2\text{CHR}^4\text{O})_n$, S, NR^5 , COO and CONH, in which R^4 and R^5 are hydrogen, methyl, ethyl or propyl, and n is a number from 1 to 5, where mixtures of compounds with groups X of the formula $\text{O}(\text{CH}_2\text{CHR}^4\text{O})_n$ are also included by the formula I, in which n has various numerical values.

Claim 42 (New): A method as claimed in claim 41, wherein the epoxide of the formula IV is produced by reacting epichlorohydrin with suitable alcohols, thiols, alcohols

reacted with alkylene oxides, amines, carboxylic acids, their esters or their carboxamides and subsequent or simultaneous elimination of HCl.

Claim 43 (New): A method as claimed in claim 42, wherein the suitable alcohols, thiols, alcohols reacted with alkylene oxides, amines, carboxylic acids or their esters or carboxamides are chosen from linear or branched aliphatic C₃-C₂₉-alcohols with an average degree of branching which is defined as (number of methyl groups per molecule)-1 of from 0 to 2.5, where the alkyl chain can have further substituents which increase the suitability of the molecule as cosurfactant, but at least do not negatively influence it, Guerbet alcohols and their unsaturated analogs, and the substituted thiols corresponding to the suitable alcohols, alcohols reacted with alkylene oxides, amines, carboxylic acids and their carboxamides.

Claim 44 (New): A detergent, household cleaner, body-cleansing composition or bodycare composition comprising at least one alkylglycidol carbonate as claimed in claim 27.

Claim 45 (New): A detergent as claimed in claim 44 in solid, liquid, gel or paste form.

Claim 46 (New): A detergent as claimed in claim 44, comprising 0.1 to 40% by weight, based on the total amount of the formulation, of at least one alkylglycidol carbonate.

Claim 47 (New): A household cleaner as claimed in claim 44 in liquid, gel or solid form.

Claim 48 (New): A household cleaner as claimed in claim 47 in the form of a hand dishwashing detergent, machine dishwashing detergent, metal degreaser, glass cleaner, floor cleaner, all-purpose cleaner, high-pressure cleaner, alkaline cleaner, acidic cleaner, spray degreaser, dairy cleaner, upholstery cleaner, plastic cleaner and bathroom cleaner.

Claim 49 (New): A household cleaner as claimed in claim 47, comprising 0.01 to 40% by weight, preferably 0.1 to 25% by weight, based on the total formulation, of at least one alkylglycidol carbonate.

Claim 50 (New): A body-cleansing composition or bodycare composition in the form of a shampoo, shower or bath gel, shower or bath lotion, a lipstick, a cosmetic formulation with care and/or conditioning properties or a styling product, a liquid soap, a care cream, a hair foam, hair gel, hair spray or after-treatment composition, a hair tonic, a lotion, treatment rinse, treatment pack, a split-end fluid, hair repair composition, hot oil treatment, hair-setting composition, hair colorant or permanent waving agent, comprising at least one alkylglycidol carbonate as claimed in claim 27.

Claim 51 (New): A detergent as claimed in claim 33, wherein said detergent is in the form of a powder, compact, granules, tablet or gel.

Claim 52 (New): A detergent as claimed in claim 33, comprising 0.5 to 30% by weight based on the total amount of the formulation, of at least one alkylglycidol carbonate.

Claim 53 (New): A detergent as claimed in claim 33, comprising 1 to 20% by weight based on the total amount of the formulation, of at least one alkylglycidol carbonate.

Claim 54 (New): A household cleaner as claimed in claim 33, wherein said household cleaner is in the form of a liquid, gel, powder or compact.

Claim 55 (New): A detergent as claimed in claim 44, wherein said detergent is in the form of a powder, compact, granules, tablet or gel.

Claim 56 (New): A detergent as claimed in claim 44, comprising 0.5 to 30% by weight based on the total amount of the formulation, of at least one alkylglycidol carbonate.

Claim 57 (New): A detergent as claimed in claim 44, comprising 1 to 20% by weight based on the total amount of the formulation, of at least one alkylglycidol carbonate.

Claim 58 (New): A household cleaner as claimed in claim 44, wherein said household cleaner is in the form of a liquid gel powder or compact.

Claim 59 (New): A household cleaner as claimed in claim 36, comprising 0.1 to 25% by weight based on the total formulation, of at least one alkylglycidol carbonate.